

SEQUENCE LISTING

<110> MOCKEL, Bettina

KREUTZER, Caroline

BATHE, Brigitte

<120> NUCLEOTIDE SEQUENCES CODING FOR THE luxR GENE

<130> 203975US0X

<150> DE10039043.9

<151> 2000-08-10

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 1052

<212> DNA

<213> Corynebacterium glutamicum

<220>

<221> CDS

<222> (214)..(849)

<223>

<400> 1
 tgcagcattg ccgggtggagc caccagaggg gtttgcggg ggcgcgggtt tggcagattc 60
 ggactcaagt gctacaggcg aggttgaact aagttctcca actgacatgc agtaaggcta 120
 gactaaagta cgattcatct gctcatcgat actcttgaag ggcgcatttc attcgaaacg 180
 aagtgcgcca ttgggaagga cctagttcaa aca atg att cgc gtg ctg ctt gct 234
 Met Ile Arg Val Leu Leu Ala
 1 5

gat gac cac gaa atc gtg agg ctc gga ctc cga gct gtg ctg gaa agc 282
 Asp Asp His Glu Ile Val Arg Leu Gly Leu Arg Ala Val Leu Glu Ser
 10 15 20

gcc gag gac att gaa gtg gtg ggc gaa gtc tcc acc gcc gaa ggt gcg 330
 Ala Glu Asp Ile Glu Val Val Gly Glu Val Ser Thr Ala Glu Gly Ala
 25 30 35

gtc gag gca gcc caa gaa ggc gga atc gac gtc atc ttg atg gac ctc 378
 Val Gln Ala Ala Gln Glu Gly Ile Asp Val Ile Leu Met Asp Leu
 40 45 50 55

cga ttc ggc ccc ggc gtc caa gga acc cag gtt tcc aca ggc gca gac 426
 Arg Phe Gly Pro Gly Val Gln Gly Thr Gln Val Ser Thr Gly Ala Asp
 60 65 70

gcc acc gca gcc atc aag cga aac atc gat aac ccg cca aaa gtc ctg 474
 Ala Thr Ala Ala Ile Lys Arg Asn Ile Asp Asn Pro Pro Lys Val Leu
 75 80 85

gtc gtg acc aac tac gac acc gac aca gac atc ctc ggc gca atc gaa 522
 Val Val Thr Asn Tyr Asp Thr Asp Thr Asp Ile Leu Gly Ala Ile Glu
 90 95 100

gcc ggc gca ctg ggc tac ctg ctc aaa gac gcc cca ccg agc gaa ctc 570
 Ala Gly Ala Leu Gly Tyr Leu Leu Lys Asp Ala Pro Pro Ser Glu Leu
 105 110 115

ctg gca gta cga tcc gca gca gaa ggt gac tcc aca ctg tca ccc 618
 Leu Ala Ala Val Arg Ser Ala Ala Glu Gly Asp Ser Thr Leu Ser Pro
 120 125 130 135

atg gtt gcg aac cgc ctg atg act cgc gtg cgc acc ccc aaa acc tca 666
 Met Val Ala Asn Arg Leu Met Thr Arg Val Arg Thr Pro Lys Thr Ser
 140 145 150

ctc acc cca cgt gaa ctg gaa gtt ctc aag ctg gtt gcc ggt gga tcc 714
 Leu Thr Pro Arg Glu Leu Glu Val Leu Lys Leu Val Ala Gly Gly Ser
 155 160 165

tcc aac cgc gac att ggc cgt atc ctc ttc ctc tca gaa gcc acg gtg		762	
Ser Asn Arg Asp Ile Gly Arg Ile Leu Phe Leu Ser Glu Ala Thr Val			
170	175	180	
aaa tcc cac ctc gtg cac atc tac gac aag ctc ggc gtg cgg tca cgt		810	
Lys Ser His Leu Val His Ile Tyr Asp Lys Leu Gly Val Arg Ser Arg			
185	190	195	
acc tcc gct gtc gca gcc gca cgt gag cag ggg ctg ctg tagcgggggt		859	
Thr Ser Ala Val Ala Ala Arg Glu Gln Gly Leu Leu			
200	205	210	
tgctgcaagg cttaggtat ccgcgcggg gttggcctac gggagcatcc cgaggctta		919	
gcagggccac gggctctggc ttgggctgag tcagggcgcg ggccaatgct ttccgacgcg		979	
tgtcteacg getttattta gtttcaag aagtttgacg aaggtgcgta gatccttcc		1039	
gggd aa agtct gaa		1052	
<210> 2			
<211> 212			
<212> PRT			
<213> Corynebacterium glutamicum			
<400> 2			
Met Ile Arg Val Leu Leu Ala Asp Asp His Glu Ile Val Arg Leu Gly			
1	5	10	15
Leu Arg Ala Val Leu Glu Ser Ala Glu Asp Ile Glu Val Val Gly Glu			
20	25	30	
Val Ser Thr Ala Glu Gly Ala Val Gln Ala Ala Gln Glu Gly Gly Ile			
35	40	45	
Asp Val Ile Leu Met Asp Leu Arg Phe Gly Pro Gly Val Gln Gly Thr			
50	55	60	
Gln Val Ser Thr Gly Ala Asp Ala Thr Ala Ala Ile Lys Arg Asn Ile			
65	70	75	80

Asp Asn Pro Pro Lys Val Leu Val Val Thr Asn Tyr Asp Thr Asp Thr
85 90 95

Asp Ile Leu Gly Ala Ile Glu Ala Gly Ala Leu Gly Tyr Leu Leu Lys
100 105 110

Asp Ala Pro Pro Ser Glu Leu Leu Ala Ala Val Arg Ser Ala Ala Glu
115 120 125

Gly Asp Ser Thr Leu Ser Pro Met Val Ala Asn Arg Leu Met Thr Arg
130 135 140

Val Arg Thr Pro Lys Thr Ser Leu Thr Pro Arg Glu Leu Glu Val Leu
145 150 155 160

Lys Leu Val Ala Gly Gly Ser Ser Asn Arg Asp Ile Gly Arg Ile Leu
165 170 175

Phe Leu Ser Glu Ala Thr Val Lys Ser His Leu Val His Ile Tyr Asp
180 185 190

Lys Leu Gly Val Arg Ser Arg Thr Ser Ala Val Ala Ala Ala Arg Glu
195 200 205

Gln Giv Leu Leu
210

<210> 3

<211> 353

<212> DNA

<213> Corynebacterium glutamicum

<400> 3
ggaatcgacg tcattttat ggacctccga ttccggccccg gcgtccaagg aacccaggtt 60
tccacaggcg cagacgccac cgcagccatc aagcgaaaca tcgataaccg gccaaaagtc 120
ctggtcgtga ccaactacga caccgacaca gacatcctcg gcgcaatcga agccggcgca 180

ctgggctacc	tgtcaaaaga	cgcacccaccg	agcgaactcc	tggcagcagt	acgatccgca	240
gcagaaggta	actccacact	gtcacccatg	tttgcgaacc	gcctgatgac	tcgcgtgcgc	300
acccccaaaa	cctcactcac	cccacgtgaa	ctggaagttc	tcaagctggt	tgc	353

<210> 4

<211> 20

<212> DNA

<213> *Corynebacterium glutamicum*

<400> 4
ggaat~~eg~~acg tcatcttgat 20

 ^
<210> 5

 ^
<211> 20

 ^
<212> DNA

 ^
<213> *Corynebacterium glutamicum*

<400> 5
gcaacc~~ag~~ct tgagaacttc 20